eFUN EXPLORATIONS ACADEMY

Where play is serious fun!

The eFun Explorations Academy challenges students with authentic, hands-on explorations. Guided by an adult mentor, students solve real world-inspired science, technology, engineering, and mathematics challenges.

Summer 2013 Schedule

Programming Courses

U.S. News & World Report, in their rankings of "The 25 Best Jobs of 2012," ranked five computer related careers in the top nine: Software Developer (#2), Database Administrator (#5), Web Developer (#6), Computer Systems Analyst (#7), and Computer Programmer (#9). Courses in the Teen Programming Series provide teenagers with a valuable introduction to the skills and concepts utilized in these career areas. Each course guides students to create useful and entertaining software applications. Ages 13-19.

GameMaker for Teens

Students learn to create 2D games using Game Maker. Several genres, including maze games like PacMan and Centipede, shooter games like Asteroids and Tank Battle, and platformers like Mario and Q-Bert are introduced. In addition, students will have lab time to design and implement games of their own design. No textbook is required, but students should bring a 4GB+ USB thumb drive. Ages 13-19.

PY4-650-001 M/T/W/R June 3-6 1-5 p.m. Room M203 $219

Android App Programming for Teens

An introduction to developing software applications that can be used on Android-powered devices (phones, tablets, etc., students are introduced to basic app development techniques as they follow step-by-step tutorials. Students will have lab time to modify the applications to enhance them for their own purposes. No textbook is required, but students should bring a 4GB+ USB thumb drive. Ages 13-19.

PY4-651-001 M/T/W/R July 29-Aug. 1 8 a.m.-Noon Room M203 $219

Python Game Programming for Teens NEW!

Python is a general-purpose, high-level, object-oriented programming language that is ranked 8th in worldwide popularity according to the TIOBE Programming Community Index. Students will learn how to craft 2D games. No textbook is required, but students should bring a 4GB+ USB thumb drive. Ages 13-19.

PY4-652-001 M/T/W July 1-10 1-3:30 p.m. Room M203 $219

LEGO Robotics Challenge Courses

No prior LEGO experience or course materials are required. Students will be taught everything they need to know during class. Students will work in teams of two—friends are welcome to sign up as partners. Ages 8-13.

Arr! Pirate Bots of the Caribbean NEW!

Ahoy thar maties! Shiver me timbers and walk the plank. Avast, follow Jack Sparrow's treasure map to find the hidden chest of gold and jewels before another band of pirates beats you, your partner, and your LEGO robot to the loot. Hoist the anchor, your adventure waits! Ages 8-13.

PY4-628-001 M/T/W/R July 22-25 1-3:30 p.m. Room M203 $129

Diary of a Wimpy Bot

Greg needs you and your partner to bail him out of his latest troubles. Teamed with a partner, you will build, program, and test a LEGO robot that will save the day. Ages 8-13.

PY4-624-001 M/T/W/R June 10-13 1-3:30 p.m. Room M203 $129

Jurassic Bot NEW!

Imagine that dinosaurs have come back from the Cretaceous Period and they are on display, but things have gone horribly wrong. The students will work with a partner to design, build and program LEGO robots to help keep the beasts caged. Ages 8-13.

PY4-629-001 M/T/W/R July 22-25 9:30 a.m.-Noon Room M203 $129

Star Wars: Droid Battle NEW!

Use the Force! Luke and Leia need your help to build droids that can defeat the Dark Side. Blast into tactical missions to help rebel forces save the galaxy. Students will work with a partner to build and program their LEGO robots to work alongside R2D2 and C3PO. Ages 8-13.

PY4-646-001 M/T/W July 15-17 1-4:30 p.m. Room M203 $129

Harry Potter: Bots of Hogwarts

Wouldn't it be fun to cast spells? Now you and your friends can imagine yourselves as Harry, Hermione, Ron and their friends as you perform various spells, win a duel, make a house float, shut down the "whomping willow," and more. You and a partner will build, program, and test a LEGO robot to perform these spells, and much more. Ages 8-13.

PY4-621-001   M/T/W   July 8-10   8:45 a.m.-Noon   Room M203 $129

MythBotsters

Do you love the Discovery Channel show? You and your robot will be responsible for "busting" a variety of myths inspired by the TV show. Students will work with a partner to build, program, and test their LEGO robot to perform a variety of fun missions—like sinking a ship with a mirror death ray, catching an arrow in midflight, using Mentos to cause Diet Coke to erupt, and more! Ages 8-13.

PY4-623-001   M/T/W   July 1-3   8:45 a.m.-Noon   Room M203 $129

Minecraft MakerBot *NEW!*

Envision yourself in the world of Minecraft. Destroy, create, mine for gold, and gaze at the fantastic structures others have built. Students work with a partner to build and program a LEGO robot to solve Minecraft-inspired challenges. Bring your imagination! Ages 8-13.

PY4-647-001   M/T/W/R   July 29-Aug. 1   1-3:30 p.m.   Room M203 $129

Stop-Motion Animation Courses

Do you like to tell stories? Are you creative? Would you like to know how to make a movie? Do you love building with LEGOs? If you said "yes" to any (or all) of these questions, then you'll love this course! You will work with a small team to brainstorm/storyboard the plot, design the set, write the script, film the stop-motion animation sequences, and edit/complete production of your masterpiece by adding the voice-overs, sound track, and special effects. Computers, webcams, headsets, stop-motion animation software and LEGOs (lots and lots of LEGOs) will be used to create the movies. Ages 7-13.

LEGO Moviemaking: Star Wars *NEW!*

Special models and mini-figs from this LEGO collection will be provided, though movie-makers will also be welcome to bring their own special LEGOs and mini-figs from home to enhance their storyline. The completed videos will be made available so students can show their family and friends. Ages 7-13.

PY4-661-001   M/T/W/R   June 10-13   10 a.m.-Noon   Room M203 $129

LEGO Moviemaking: Harry Potter *NEW!*

Special models and mini-figs from this LEGO collection will be provided, though movie-makers will also be welcome to bring their own special LEGOs and mini-figs from home to enhance their storyline. The completed videos will be made available so students can show them to their family and friends. Ages 7-13.

PY4-662-001   M/T/W   July 15-17   9:15 a.m.-Noon   Room M203 $129

Registration Information

- Online — *morainevalley.edu*
  Click on "Register for Noncredit Classes" on the homepage. Then click on "Click Here," then click on "Search, Register and Pay for Non-Credit classes." Input the 9-digit course code in the box titled "Course Code Number." Click on "Submit."
- By phone — **(708) 974-2110**
- In person — Registration Office, Building S, Room S103

Questions?

Contact Larry Langellier at *langellier@morainevalley.edu* or **(708) 974-5627**, or call Corporate, Community and Continuing Education at **(708) 974-5735** or visit *morainevalley.edu/vlc*.

Tuition Refund Policy

It is the student's or parent/guardian's responsibility to drop a course at least three business days (9 a.m.-5 p.m.) prior to the start of the class for a full refund. Classes dropped less than three days before the start of the class will receive no refund. No-shows do not constitute a cancellation. No credit may be used toward another section for missed classes.

Corporate, Community Continuing Education.

Moraine Valley Community College

Changing Lives for a Changing World